



# CHESTERFIELD COUNTY WATER AND SEWER SPECIFICATIONS

## THIRD EDITION

### LIST OF CHANGES

December 1, 2006

## PART I

<b>**PAGE #**</b>	<b>*** CHANGE ***</b>
APP 7-11 & APP 7-12	Text on these pages were re-arranged to provide better clarification on owner's Engineer/County responsibilities for completing the Sizing Water Service Lines and Meters form. In addition, we eliminated the option of calculating the water demand using the IPC.

## PART II

<b>**PAGE #**</b>	<b>*** CHANGE ***</b>
BLK-1, BLK-2, BLK-3 & BLK-4	Added information to chart to cover 30" diameter.
FIR-3 SHT. 1 OF 3 & SHT. 2 OF 3	Modified Item (H.)
MAN-10	Modified the note to eliminate the words "or equal".
WAT-6	Modified chart to include a size B for 30" pipe.

## PART III

<b>**PAGE #**</b>	<b>*** CHANGE ***</b>
	<i>Revised</i> Table of Contents to reflect changes in Part III.
I-5	Under 10. Subcontractors. - Changes as shown below: The Bidder's attention is called to the requirement that not more than fifty (50) percent of the work shall be subcontracted <del>and that the amount of any subcontracts proposed by the Bidders shall be identified on the Bid Form.</del> <b>The amount of any subcontract proposed by any bidder shall be provided to the County upon request.</b>
G-29	Under 62. Water Line Tie-Ins - Added the following language:  "Before a tie-in will be allowed, all new valves, including fire hydrant valves, shall be accessible and verified fully open by the Contractor, unless there are valves designated as "normally closed". Prior to tie-in, the Inspector shall verify that all valves, including fire hydrant valves, are fully open and accessible. Immediately after a tie-in has been made, all valves used during the shutdown shall be verified fully open by the Inspector. All fire hydrants shall be checked by the Inspector to ensure water is available and each hydrant is in working order."
NTP-1	First paragraph - <i>added</i> <b>"after the 10 day commencement period"</b>
5-12	Under 3.03 Disinfection A. - <i>Changed</i> "C651-92" to "C651-05".  Under 3.03 Disinfection A. - <i>Added</i> the following language:  The Contractor or his subcontractors shall be familiar with the procedures and equipment required for disinfecting large diameter water mains. As part of the submittal process the Contractor shall be required to submit a disinfection plan to the Engineer for approval. At a minimum, the Contractor's plan shall address the following: <ul style="list-style-type: none"> <li>• Description of chlorination procedure</li> <li>• Method of chlorination</li> <li>• Method of neutralizing chlorinated water</li> <li>• Method of controlling discharge water such that damage from erosion and flooding is prevented.</li> </ul>
5-13	Under 3.03 Disinfection A. 1. - <i>Changed</i> "Section 3 of AWWA C651-92" to "Section 4 of AWWA C651-05".
5-13, 5-14 & 5-15	<i>Reformatted</i> pages due to language added on page 5-12.
5-16	Under 4. Method of Chlorine Application and Testing - <i>added</i> new <b>"b. For 36" and larger water lines: Disinfection by the</b>

	slug method shall be in accordance with AWWA C-651-05, Section 4.4.4.3. A preassembled flushing mechanism shall be used between the supply and the process equipment and the chlorinated main at all times."  <i>Renumbered</i> remaining items under #4.
5-16, 5-17 & 5-18	<i>Reformatted</i> pages.
5-19	Under D. 2 <sup>nd</sup> paragraph - <i>added</i> the following language: "Connections to existing mains must be done within 10 working days of the successful completion of all bacteriological tests; otherwise, the disinfection process shall be repeated."
5-19 thru 5-22	<i>Reformatted</i> pages.

## PART IV

<b>**PAGE #**</b>	<b>*** CHANGE ***</b>
	<i>Revised</i> Table of Contents to reflect changes to Part IV.
G-1	<i>Reformatted</i> page.
G-2	<i>Added</i> "K. No one other than appropriate Utilities Department employees will be allowed to operate any valve that is part of the Utilities Department system. This includes all valves that become part of the Utilities Department system after a tie-in has been made."
G-10	Under 25. Water Line Tie-Ins - <i>Added</i> the following language:  "Before a tie-in will be allowed, all new valves, including fire hydrant valves, shall be accessible and verified fully open by the Contractor, unless there are valves designated as "normally closed". Prior to tie-in, the Inspector shall verify that all valves, including fire hydrant valves, are fully open and accessible. Immediately after a tie-in has been made, all valves used during the shutdown shall be verified fully open by the Inspector. All fire hydrants shall be checked by the Inspector to ensure water is available and each hydrant is in working order."
3-12	Under 3.03 Disinfection A. - <i>Changed</i> "C651-92" to "C651-05".
3-13	Under 3.03 Disinfection A. - <i>Added</i> the following language:  The Contractor or his subcontractors shall be familiar with the procedures and equipment required for disinfecting large diameter water mains. As part of the submittal process the

	<p>Contractor shall be required to submit a disinfection plan to the Engineer for approval. At a minimum, the Contractor's plan shall address the following:</p> <ul style="list-style-type: none"> <li>• Description of chlorination procedure</li> <li>• Method of chlorination</li> <li>• Method of neutralizing chlorinated water</li> <li>• Method of controlling discharge water such that damage from erosion and flooding is prevented.</li> </ul> <p>Under 3.03 Disinfection A. 1. - <i>Changed</i> "Section 3 of AWWA C651-92" to "Section 4 of AWWA C651-05".</p>
3-14 & 3-15	Reformatted page.
3-16	<p>Under 4. Method of Chlorine Application and Testing - <i>added</i> new "<b>b. <u>For 36" and larger water lines:</u> Disinfection by the slug method shall be in accordance with AWWA C-651-05, Section 4.4.4.3. A preassembled flushing mechanism shall be used between the supply and the process equipment and the chlorinated main at all times.</b>"</p> <p><i>Renumbered</i> remaining items under #4.</p>
3-17, 3-18 & 3-19	Reformatted pages.
3-20	<p>Under D. 2<sup>nd</sup> paragraph - <i>added</i> the following language:  <b>"Connections to existing mains must be done within 10 working days of the successful completion of all bacteriological tests; otherwise, the disinfection process shall be repeated."</b></p>
3-21 & 3-22	Reformatted pages.

## PART V

<b>**PAGE #**</b>	<b>*** CHANGE ***</b>
	<i>Revised</i> Table of Contents to reflect changes to Part V.
V-1-2	Under B. Valves 2. Butterfly Valves - Removed "K-Flo 47 Series (30"-72)" <i>Added</i> " <b>ValMatic American BFV (16" and Larger)</b> " and " <b>Milliken Models 510 and 511 (30" and Larger)</b> ".
V-1-7	Under F. Vaults, Precast Concrete - <i>Deleted</i> Elite Fire Protection, Inc. and <i>added</i> " <b>Rotondo Precast</b> ".
V-1-8	Under h. Resilient Seated Wedge Tapping Valves - <i>Changed</i> 5. Clow Model F6114 (for 16" - 20" only) to 5. Clow Model F6114 (for 16" - <b>36"</b> only)
V-1-11	Under Q. Pipe Restraints 1. For PVC Pipe (Sizes up to 12") - <i>Added</i> " <b>h. U.S. Pipe &amp; Foundry MJ Field Lok Gaskets - Series PV &amp; Series Gland (4"-12")</b> "
V-1-12	Under Q. Pipe Restraints 2. For Ductile Iron Pipe - <i>Added</i> " <b>i. U.S. Pipe &amp; Foundry MJ Field Lok Gasket - Series KE &amp; Series Gland (4"-12")</b> "

V-1-13	Under Watts Regulator Co. - <i>Added "774CDA 4"-10" and 774 DCDA 4"-10"</i>
V-1-14 & V-1-15	<i>Reformatted</i> pages
V-3-5	Under Butterfly Valves #3 - <i>Changed</i> DeZurik to <b>"DeZurik Water Controls"</b> .
V-3-6	Under Butterfly Valves - Manufacturers - <i>Added</i> <b>"8. ValMatic Valve and Manufacturing Corporation"</b> and <b>"9. Milliken Valve Co."</b>
V-3-9 & V-3-10	Under Vaults and/or Meter Boxes - <i>Deleted</i> Elite Fire Protection, Inc. and renumbered remaining items.
V-3-23, V-3-24 & V-3-25	<i>Changed</i> Hughes Supply and National Waterworks to <b>"HD Supply"</b> ; <i>deleted</i> Elite Fire Protection, Inc.; <i>reformatted/renumbered</i> remaining items.
V-4-3	Under 2. Valves a. - <i>Added</i> <b>"14) All internal and external bolts shall be a minimum Type 304 stainless steel."</b>
V-4-4	Under 3. Butterfly Valves b. second sentence - <i>Changed</i> 30" to <b>24"</b> .
V-4-5	Under 3. Butterfly Valves - <i>Added</i> <b>"j. All internal and external bolts shall be a minimum Type 304 stainless steel."</b>
V-4-6	Under 5. Tapping Sleeves: Stainless Steel: <i>Changed</i> b. Branch/flange to be ductile iron, carbon steel or 304 stainless steel, 15 lb. drilling. To <b>"b. Branch/flange to be 304 stainless steel, 150 lb. drilling."</b>
V-4-9	Under 6. Double Check Assembly a. Valve Pit - <i>Changed</i> 6) The entrance hatch to the vault will be a JD-2AL 4'-0" x 4'-0" Bilco door, or as manufactured by Elite Fire Protection, Inc., Hydro Tap Service, Inc., or approved equal. To <b>"6) The entrance hatch to the vault will be a JD-2AL 4'-0" x 4'-0" Bilco door, or approved equal."</b>